NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 5/28/2010

Control	**0783-01-093**
Project	**STP 2010(907)MM**
Highway	**LP 289**
County	**LUBBOCK**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum notification which details the changes and the respective proposal pages which were added and/ or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped “This Proposal Issued for Informational Purposes.”

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: STP 2010(907)MM CONTROL: 0783-01-093
COUNTY: LUBBOCK
LETTING: 06/03/2010
REFERENCE NO: 0528

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
X BID INSERTS (SH. NO.: 2-3))
X GENERAL NOTES (SH. NO.: A,F)
)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS SHEET 2-3: REVISED QUANTITY FOR ITEM 316-2006 AND REPLACED ITEM 316-2223 WITH ITEM 316-2225 AND UPDATED QUANTITY DUE TO RATE CHANGE

GENERAL NOTES: SHEET A: REVISED RATES AND AGGR GRADE FOR ONE COURSE SURFACE TREATMENT. SHEET F: ADDED GENERAL NOTE REQUIRING PLACEMENT OF PERMEABLE FRICTION COURSE TO BE WITHIN ONE WEEK OF PLACEMENT OF ONE COURSE SURFACE TREATMENT

PLAN SHEETS: REPLACED SHEETS 3, 4, 4B AND 5 DUE TO ABOVE CHANGES

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	500	2001	005	MOBILIZATION DOLLARS and CENTS	LS	1.000	1
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HANDLING DOLLARS and CENTS	MO	2.000	2
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	4,660.000	3
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	1,997.000	4
	666	2030		REFL PAV MRK TY I (W) 8" (DOT)(100MIL) DOLLARS and CENTS	LF	720.000	5
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	15,315.000	6
	668	2103		PREFAB PAV MRK TY C (W) (12") (SLD) DOLLARS and CENTS	LF	2,216.000	7
	668	2105		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	276.000	8
	668	2106		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	105.000	9
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	1,165.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
1	3142	2001		UTBHMWC (MEMBRANE) DOLLARS and CENTS	GAL	43,917.000	11
1	3142	2008		UTBHMWC (ASPHALT) DOLLARS and CENTS	TON	439.000	12
1	3142	2009		UTBHMWC (AGGREGATE) (TY C) DOLLARS and CENTS	TON	8,893.000	13
	6834	2001		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	DAY	60.000	14
	8251	2003	005	RE PM W/RET REQ TY I(W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	15,219.000	15
	8251	2006	005	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	26,082.000	16
	8251	2018	005	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	39,940.000	17
				ALTERNATE NO. 1A DOLLARS and CENTS			
	316	2006	016	ASPH (AC-20-5TR) DOLLARS and CENTS	GAL	54,897.000	18
	316	2225	016	AGGR(TY-PB GR-5 SAC-B) DOLLARS and CENTS	CY	1,627.000	19
	342	2005	002	PFC (ASPHALT) A-R-BNDR DOLLARS and CENTS	TON	823.000	20

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	342	2007	002	PFC (AGGREGATE)(A-R MIX) SAC-A DOLLARS and CENTS	TON	8,235.000	21

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GENERAL NOTES:

Ultra-Thin Bonded Hot Mix Wearing Course Basis of Estimate

ITEM	DESCRIPTION	RATE (approx.)
3142	¾ inch Ultra-Thin BND HM WEAR CRS (TY C)	85 LBS/SY
	Membrane	0.2 GAL/SY
	Asphalt (5.2% by weight) (PG70-28)	4 LBS/SY
	Aggregate (TY B)	81 LBS/SY

Ultra-Thin Bonded Hot Mix Wearing Course Area (SY)

SY
219,587

Permeable Friction Course Basis of Estimate (Alternate)

ITEM	DESCRIPTION	RATE (approx.)
342	¾ inch Permeable Friction Course	82.5 LBS/SY
	Asphalt A-R Binder (9% by weight)	7.5 LBS/SY
	Aggregate (A-R Mix)	75 LBS/SY

Permeable Friction Course Area (SY) (Alternate)

SY
219,587

Surface Treatment Basis of Estimate (Alternate)

DESCRIPTION	ONE COURSE
ASPH TYPE & GRADE	AC-20-5TR
ASPH RATE (GAL/SY)	0.25
AGGR TYPE	PB
AGGR GRADE	5
AGGR RATE (CY/SY)	1/135

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Surface Treatment Area (SY) (Alternate)

ONE COURSE
219,587

General Requirements and Covenants - Items 1 thru 9

Item 2 - Instructions to Bidders

View the plans on-line or download from the web at:
http://www.txdot.gov/business/contractors_consultants/plans_online.htm

Order plans from any of the plan reproduction companies shown on the web at:
http://www.txdot.gov/business/contractors_consultants/repro_companies.htm

Carefully review the special specifications and detailed plan sheets. Although some items are similar to those installed in other areas of the State, this project contains details specific to the Lubbock District.

Pre-letting questions will be answered by calling the Lubbock Area's Office at (806) 748-4424.

Utilities

Overhead and underground utility installations exist within the project limits.

Item 7 - Legal Relations and Responsibilities

Maintain access to adjacent property at all times.

Coordinate street closures with the local fire, police, and other emergency personnel.

Notify, in writing, each residence and business 10 days prior to beginning construction of the phase/phases that are expected to affect their ingress and egress. This notice may be hand delivered or mailed.

When applicable, comply with all requirements of the Environmental Permits Issues and Commitments (EPIC) sheets.

Dispose of all waste materials in compliance with local, state and federal regulations. Submit a list of all approved waste sites to the Engineer for review.

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Item 8 - Prosecution and Progress

Monthly schedule updates are a very important aspect of managing the progress of this project. The Engineer may withhold the monthly estimate if the schedule update has not been received.

Do not begin work later than **August 16, 2010**.

Do not begin work before 9 p.m. or end work after 7 a.m. unless authorized by the Engineer. For the UTBHMWC and PFC, finish laydown operations by 4 a.m. unless otherwise directed.

Work on Friday and Saturday nights will not be allowed unless authorized by the Engineer.

Working days will be computed and charged in accordance with Article 8.3.A.4 Standard Workweek.

Conduct operations such that all equipment is at least 30 feet from the roadway before sundown.

Item 9 - Measurement and Payment

Submit material-on-hand payment requests at least three working days prior to the end of the month for payment on that month's estimate.

Item 302 - Aggregates for Surface Treatments (Alternate)

Precoat aggregate with asphalt of the type and grade approved by the Engineer. Use an anti-stripping agent, of the type and at a rate approved by the Engineer. The use of flux oil is not permitted.

Cure precoated aggregate a minimum of 72 hours before applying the aggregate to the roadway surface.

Aggregate will be subjected to five cycles of the magnesium sulfate soundness test in accordance with Test Method TEX-411-A. The loss shall not be greater than 25 percent.

Ensure aggregate has a minimum surface aggregate classification (SAC) of **B**.

Item 316 - Surface Treatments (Alternate)

Do not place AC-20-5TR asphalt between September 1 and April 30, unless otherwise directed by the Engineer.

When modified asphalt cement is specified, surface treatments shall not be applied when the air temperature is below 60°F and is falling, but may be applied when the air temperature is above

50°F and is rising and shall not applied when the temperature of the surface on which the surface treatment is to be applied is below 60°F.

Remove all excess aggregate by brooming after sufficient curing has occurred but no later than the end of the day, as directed by the Engineer. Remove all excess aggregate from the project in curb and gutter sections, and other areas as directed by the Engineer.

Schedule the placement width for all asphalt surfaces in a manner such that all joints will coincide with proposed lane lines (+/- 6 inches).

Cover or protect any sealed expansion joints or rail on bridges and any railroad tracks encountered on this project, as directed by the Engineer. Clean any of these items not properly protected. This work will not be paid for directly but will be considered subsidiary to Item 316.

Leave signs and barricades in place until all brooming and the application of the center stripe is completed, unless otherwise directed by the Engineer.

Set a string line for all surface treatment operations, unless otherwise directed by the Engineer. Remove the string line daily.

Use medium pneumatic tire rollers, as directed by the Engineer.

Do not use flat wheel rollers.

Asphalt storage tanks may be used.

Items 341, 342, 344, 346 - Hot-Mix Asphalt Pavement (Alternate)

Provide a summary spreadsheet for each lot in accordance with Article 520.2 of the Standard Specifications.

Place mixture when the roadway surface temperature is equal to or higher than the temperatures listed in Table 1 below unless otherwise approved or shown on the plans. Measure the roadway surface temperature with a handheld infrared thermometer. The Engineer may allow mixture placement to begin prior to the roadway surface reaching the required temperature requirements if conditions are such that the roadway surface will reach the required temperature within 2 hrs. of beginning placement operations. Unless otherwise shown on the plans, place mixtures only when weather conditions and moisture conditions of the roadway surface are suitable in the opinion of the Engineer.

Table 1
Minimum Pavement Surface Temperatures

Specification Item Number	High Temperature Binder Grade	Minimum Pavement Surface Temperatures in Degrees Fahrenheit	
		Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
Items 341 & 344	PG 64	45	50
	PG 70	55[1]	60[1]
	PG 76	60[1]	60[1]
Items 342 and 346	PG 76	65[1]	70[1]

Note 1: Contractors may pave at temperatures 10°F lower than the values shown in Table 1 when utilizing a paving process or equipment that eliminates thermal segregation. In which cases, the Contractor must use either an infrared bar attached to the paver, or a hand held thermal camera, or a hand held infrared thermometer operated in accordance with Test Method 244-F to demonstrate to the satisfaction of the engineer that the un-compacted mat has no more than 10°F of thermal segregation.

The Engineer will take asphalt samples to perform Dynamic Shear Rheometer (DSR) testing at the beginning of the project and randomly throughout the project to verify compliance. These tests will be performed at the district laboratory. If the district test fails, cease production, unless otherwise authorized by the Engineer. Any costs or delays associated to testing will be solely the responsibility of the contractor.

If the VMA fails, take corrective action. If consecutive tests fail, cease production, unless otherwise authorized by the Engineer, until the ability to produce the desired material can be demonstrated to the satisfaction of the Engineer.

Item 342 - Permeable Friction Course (PFC) (Alternate)

Do not place PFC between October 1 and May 1.

Provide Performance Grade PG 70-28 SBR or SBS Asphalt, for all PFC.

Do not tack coat vertical edges.

Aggregate will be subjected to five cycles of the magnesium sulfate soundness test in accordance with Test Method Tex-411-A. The loss shall not be greater than **18** percent.

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There will be a mandatory pre-paving meeting.

Lay the one course surface treatment prior to laying the PFC. Once one course is placed then PFC must be placed within one week.

The addition of 1 percent lime will be required by the Engineer in the PFC. Introduce lime in such a way that it will be in wet intimate contact with the aggregate by adding lime to wet aggregates and processing the mixture through a pugmill, unless otherwise authorized in writing by the Engineer.

Ensure the aggregate has a minimum surface aggregate classification (SAC) of **A**.

Item 502 - Barricades, Signs And Traffic Handling

Prior to beginning construction, the Engineer shall approve the routing of traffic and sequence of work.

Additional signs and barricades as directed by the Engineer shall be considered subsidiary to Item 502.

Provide flashing portable arrow panels for all lane closures.

Wash all active traffic control devices following each weather event (rain, snow, sleet, dust, etc.) and at times deemed necessary by the Engineer.

To ensure the safety and convenience of traffic, flaggers may be required when construction machinery is being operated along, across, or adjacent to lanes carrying traffic. If considered necessary by the Engineer, supplemental signs and barricades may be required.

Fill any holes left by barricade or sign supports and restore the area to its original condition.

Provide heavy duty "green" springs for dual chevrons on projects requiring flexible support systems.

Use the CW21-1T “Give Us A Brake” sign on this project.

The Contractor shall bid the traffic control plan shown in the plans. Any proposed alterations to the TCP (combining work areas/ phasing/ etc.) shall be submitted to the Engineer at least 10 days prior to anticipated changes.

Traffic switches will not be permitted on Fridays or any working day preceding a holiday unless authorized by the Engineer.

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Item 504 - Facilities for Field Office and Laboratory

No field office will be required.

Item 506 - Temporary Erosion, Sedimentation and Environmental Controls

No NOI is required.

Provide long-term, Type 1 construction exits, located at the Contractor's equipment storage area. This will be subsidiary.

Item 585 - Ride Quality for Pavement Surfaces

Use Surface Test Type **B**.

The Engineer will use the QA test results and the corresponding values in the table below, to determine pay adjustments for ride quality using Department software.

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Pay Adjustment Schedule for Ride Quality

Average IRI for each 0.10 mile of Traffic Lane (in/mi)	Pay Adjustment $/0.10 mile of Traffic Lane	Average IRI for each 0.10 mile of Traffic Lane (in/mi)	Pay Adjustment $/0.10 mile of Traffic Lane
35	90	70	30
36	80	71	29
37	75	72	28
38	70	73	27
39	65	74	26
40	60	75	25
41	59	76	24
42	58	77	23
43	57	78	22
44	56	79	21
45	55	80	20
46	54	81	0
47	53	82	0
48	52	83	0
49	51	84	0
50	50	85	0
51	49	86	0
52	48	87	0
53	47	88	0
54	46	89	0
55	45	90	0
56	44	91	0
57	43	92	0
58	42	93	0
59	41	94	0
60	40	95	0
61	39	96	0
62	38	97	0
63	37	98	0
64	36	99	0
65	35	100	0
66	34	> 120	Corrective Action
67	33		
68	32		
69	31		

Corrective action, when required, shall be diamond grinding, as approved and directed by the Engineer.

In lieu of corrective action for localized roughness, the Engineer may assess a penalty of $75 for each occurrence. No more than 1 penalty will be assessed for any 5 ft. of longitudinal distance.

Use a 10-ft. straightedge to evaluate areas with localized roughness, which have more than 1/8-in. variation between any 2 contacts on the straightedge.

Fog-seal the aggregate exposed from diamond grinding.

Item 672 - Raised Pavement Markers

Install raised pavement markers as "Reflective Raised Pavement Markers for Vehicle Positioning Guidance" as shown on standard sheet PM (2).

Item 3142 - Ultra-Thin Bonded Hot Mix Wearing Course (UTBHMWC)

Provide Performance Grade PG 70-28 SBR or SBS Asphalt, for all UTBHMWC.

Ensure the aggregate has a minimum surface aggregate classification (SAC) of **A** and has a Type **C** gradation.

Aggregate will be subjected to five cycles of the magnesium sulfate soundness test in accordance with Test Method TEX-411-A. The loss shall not be greater than **18** percent.

Provide enough equipment for continuous operation.

The addition of 1 percent lime will be required by the Engineer in the UTBHMWC. Introduce lime in such a way that it will be in wet intimate contact with the aggregate by adding lime to wet aggregates and processing the mixture through a pugmill, unless otherwise authorized in writing by the Engineer.

Item 6834 - Portable Changeable Message Sign

Provide messages as directed by the Engineer.

Provide **2** solar powered changeable message signs for this project.

Items 666 & 8251 - Reflectorized Pavement Markings

Reference the existing striping in order to stripe the roadway as it was prior to sealing.

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Mark the location of standard pavement markings, including barrier lines, no passing zones, gores, and transitions adjusting to meet latest standards or as directed by the Engineer.

For surface treatment projects, leave the final course in place for three days and broom the roadway directly ahead of the striping machine prior to placing standard pavement markings.

After completion of all work and removal of the barricades, time charges will be suspended. The performance period for the project will not begin until all the striping has been completed. Final acceptance will not be granted until the performance period for Type 2 pavement markings is complete. If replacement markings are needed, traffic control for moving operations will be required. No payment will be made for traffic control during replacement striping work. All traffic control work shall be considered subsidiary to the project's replacement striping work.

The yellow or white long-line striping for re-striping operations will not lag one another by more than four (4) working days. The performance period for a roadway will not begin for a section of roadway or a project until all required striping for that section or project has been completed.